

ABSTRACT

A bulk materials pump feeder having a housing and a rotating drive rotor for transferring material from an inlet to an outlet of the housing. The drive rotor has a hub. Drive disks extend away from the hub toward a housing inner wall.

5 Three structural features of the feeder reduce the tendency of material to jam between the drive rotor and the housing or other stationary parts. First, the distance between the circumferential edges of the drive disks and the housing inner wall increases from the inlet to the outlet in the direction of rotation of the drive rotor.

10 Second, a low-friction brush seal disposed on the periphery of the drive disks seals the area between the periphery of the drive disks and the inner wall. Finally, a materials scraper having a flexible tip is mounted in the housing and extends into the drive rotor between the drive disks.